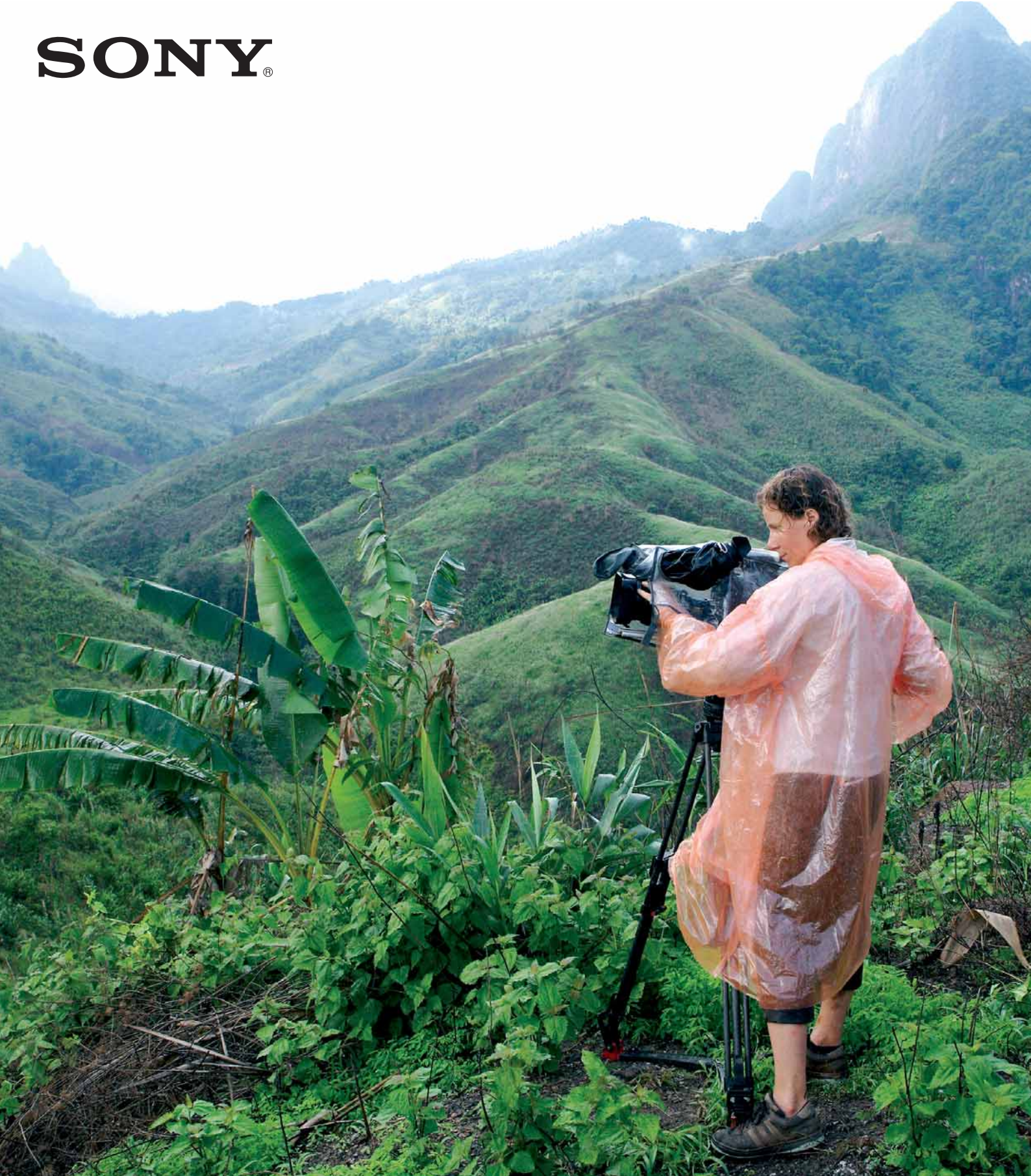


SONY[®]



XDCAM™ HD Family



www.sonybiz.net/xdcam

Time and money. Two things you can't afford to waste.

We're living in a fast-paced world where time and money are scarce resources. Broadcasters and programme makers are under greater pressures than ever before. Increased competition means more channels chasing a fragmented audience that's offered almost limitless viewing choices. Capturing great-looking images from anywhere in the world and getting to them on air ahead of your rivals can be a matter of survival. Global viewing audiences want to be informed, entertained and enthralled. And in a media-saturated world they won't hang around if your competitors have got the best pictures first.

While viewers are expecting more, tight project budgets mean there's no latitude for making the wrong decisions and paying the price later on. Choosing the right format isn't just about raw performance and up-front hardware costs. It's about understanding the real price of every second on screen in terms of media lifecycles, facilities overheads and human resources.

In response to new opportunities and an increasingly competitive landscape, traditional broadcast workflows are changing fast. Tape-based production is being supplanted by network-oriented paradigms. From planning and acquisition to editing, playout and archive, broadcasters are embracing the benefits of, file-based production. News gatherers have led the way, but now the entire production community – from documentary makers to sports, drama and live events specialists – is following suit.

Unrivalled performance. Absolute reliability.

At the heart of this rapid migration to network-oriented production is XDCAM. It's the world's first professional non-linear format that harnesses the power of open standards like MXF in a rugged package that teams superb performance and reliability with exceptionally attractive removable media costs.

For starters, XDCAM has been designed to shrug off the physical rigours of the harshest physical environments. Whether you're at the summit of a snow-capped mountain in sub-zero temperatures or driving across sand dunes in the mid-day desert heat, XDCAM performs unflinchingly.

Based on proven optical disc technology, XDCAM brings acquisition and production processes into one seamless workflow. Since you're shooting and editing with the same physical medium, pictures captured in the field with XDCAM can be instantly available in your non-linear editing environment. And because high-resolution content plus proxies and metadata are all stored on the same removable optical disc, XDCAM dovetails seamlessly with today's IT-oriented, network-centric news environments.

XDCAM HD
Professional Disc System


Professional Disc™

CINEALTA



PDW-F330 Camcorder



PDW-F350 Camcorder



PDW-F70 Recording Deck



PDW-F30 Viewing Deck

Just as importantly, XDCAM saves you time and money on every project compared with traditional tape-based production. Good for a minimum of 1,000 record/re-record cycles, the rugged optical disc cartridge stores up to 2 hours of broadcast-quality pictures – plus all your associated project files – while taking up less shelf space than a Betacam cassette. And since files can be imported faster than real-time from XDCAM into your non-linear news or production environment, there's no need to hang around ingesting hours worth of taped footage into your NLE before craft editing starts. Just think about it. The savings in facilities and operator costs alone can repay your investment in XDCAM within months... or even less.

XDCAM is much more than just a standalone production format. It's been conceived as part of a total environment that integrates content creation, storage and distribution in a single, seamless workflow. Leveraging support for MXF and open IT industry standards, XDCAM offers third party interoperability with hardware, applications and complete solutions from over thirty vendors.

Better still, XDCAM is ready for today's High Definition world. With XDCAM HD you can enjoy all the benefits of file-based, network-oriented acquisition and production – plus true HD picture quality to enhance the international commercial appeal and shelf-life of every project.

Broadcasters and programme makers in Europe alone are rapidly embracing the benefits of XDCAM to drive down costs, open up new creative possibilities and secure a formidable competitive edge for themselves. Isn't it time you joined them?

**One format family. One vision.
Infinite possibilities.**

High Definition is changing the way we see the world.

Viewing audiences are demanding better-looking pictures. With Sony XDCAM HD you can embrace the creative and commercial opportunities that High Definition opens up to programme makers everywhere.

XDCAM HD builds on the proven strengths of Sony XDCAM to make **High Definition, non-linear, end-to-end workflow** a cost-effective reality.

Whether you're shooting news, your first independent feature or a corporate training video, XDCAM HD teams all the advantages of file-based acquisition and production with true High Definition picture quality.

Just like Standard Definition XDCAM, XDCAM HD has been designed and engineered as a no-compromise professional system for dependable results under a wide range of operational conditions. After all, you'd expect nothing less from Sony – the worldwide leader in High Definition video know-how, from scene to screen.

Recognising that the creative and commercial demands of every project are different, XDCAM HD camcorders allow you to shoot true 1080-line High Definition pictures at a choice of three data rates. Select 35Mb/s for the best possible on-screen look with 60 minutes shooting time per disc. Switch to 25Mb/s and it's easy to edit shots captured on XDCAM HD with other High Definition material acquired using HDV. Or switch to 18Mb/s and enjoy a massive 120 minutes recording time on a single disc.

The sheer versatility of XDCAM HD doesn't stop there. Variable frame rate shooting lets you create super-smooth slow- or fast motion sequences... a tricky-to-achieve feature that's normally the preserve of high-end camcorders.

It's a formidable creative tool, but we haven't cut corners on quality, reliability or your real-world operational needs. While XDCAM HD delivers an immediate step up to High Definition picture quality, it uses exactly the same **rugged, re-usable, removable** optical media as Standard Definition XDCAM to keep your operational costs down. What's more, it offers the same familiar operation and ergonomics as other Sony professional camcorders – so there's no painful learning curve to slow you down.

XDCAM HD also provides a perfect fit with the rest of your non-linear production environment. Support for a growing range of third party editing applications means you can mix and match tools from your preferred suppliers... and have great-looking pictures ready for playout in the shortest time possible.

If you're already using Standard Definition XDCAM, it's easy to migrate to High Definition working at your own pace. XDCAM HD players can replay SD XDCAM discs directly – and you can also downconvert XDCAM HD material if you want to post produce in an existing SD environment.

Best of all, you'll be amazed at just how affordable XDCAM HD is. Putting High Definition production within reach of corporate production budgets, XDCAM HD makes fantastic business sense in today's business environment.

XDCAM HD – Versatile, Disc-based HD Recording System

The Sony XDCAM HD system is a highly versatile production tool that offers flexible recording functionalities including a choice of video frame rates, interlace or progressive modes, recording data rates, and both HD or SD* formats.

*Selectable between 16:9 and 4:3 aspect ratios.

HD 1080 Recording using the “MPEG HD” Codec

The XDCAM HD products record 1080-line high-definition video using the “MPEG HD” codec that uses the industry-standard MPEG-2 MP@HL compression. The use of this codec, which is based on common MPEG compression, allows compatibility with many other devices such as non-linear editing systems.

Selectable Bit Rates

Users can select desired bit rates of either 35, 25, or 18 Mb/s depending on their requirements for picture quality and recording length. Choosing the highest bit rate of 35 Mb/s results in the highest-quality pictures over a recording time of 66 minutes*, while choosing the 18 Mb/s bit rate provides a longer recording time of 122 minutes.

*Approximate time in two-channel audio recording mode.

Wide Choice of Video Format – Interlace and Progressive Including Native “23.98P” Mode

The XDCAM HD products offer a wide choice of video formats for both frame rates and scanning mode. They include 1080/59.94i, 50i, 29.97P, 25P, and native 23.98P.

High-quality Uncompressed Audio Recording

In addition to HD video recording, high quality audio is an equally significant feature in the XDCAM HD system. The XDCAM HD products can record four-channel, 16-bit, 48-kHz uncompressed audio.

HD/SD Switchable Recording and Up/Down Conversion Capability

The XDCAM HD camcorders provide the powerful capability to record in DVCAM format with NTSC/PAL and 16:9/4:3 switchable modes, as well as the MPEG HD format. What’s more, both the XDCAM HD camcorders and decks incorporate a down-conversion capability that allows material recorded in the MPEG HD format to be converted to SD signals and output via the SD video output connectors (including SD composite and i.LINK™ connectors). This enables users to view the material on an SD monitor or transfer it to other SD-based equipment such as a VTR or editor.

The PDW-F70 and PDW-F30 decks also boast an up-conversion capability, which allows material recorded in the DVCAM format to be converted to HD signals and output via its HD-SDI** or HD analogue component connector. These capabilities allow users to easily and flexibly migrate to HD-based operations at their own pace.

Another powerful capability of the decks is up-conversion recording via the optional PDBK-104 board. This allows input signals from the SD-SDI or SD analogue composite connector to be recorded in the MPEG HD format, further increasing flexibility in mixed SD/HD operations.

*i.LINK is a Sony trademark used only to designate that a product is equipped with an IEEE1394 connector. Not all products with an i.LINK connector may communicate with each other. Please refer to the documentation that comes with any device having an i.LINK connector for information on compatibility, operating conditions, and proper connection.

**HD-SDI output is only available on the PDW-F70.

XDCAM HD Recording Specifications

HD Video Codec	Compression	MPEG-2 MP@HL		
	Sampling Rate	4:2:0		
	Bit Rate and Recording Time* (approx.)	HQ, 35 Mb/s VBR		66 minutes (4-ch audio) 69 minutes (2-ch audio)
		SP, 25 Mb/s CBR		87 minutes (4-ch audio) 92 minutes (2-ch audio)
		LP, 18 Mb/s VBR		113 minutes (4-ch audio) 122 minutes (2-ch audio)
Number of Pixels	1440 x 1080			
SD Video Codec	Compression	DVCAM*		
	Sampling Rate	4:1:1 (NTSC)/4:2:0 (PAL)		
	Bit Rate and Recording Time (approx.)	25 Mb/s, 85 minutes		
	Active Lines Per Frame	480 (NTSC)/576 (PAL)		
Audio	Compression	None (Linear PCM)		
	Number of Channels	2 or 4, selectable		
	Sampling Frequency	48 kHz		
	Quantization	16 bits/sample		

* When recording in HQ (35 Mb/s) or LP (18 Mb/s) mode, recording time may be more than the above specified figures depending on the actual bit rate that is adopted during VBR encoding.

**DVCAM recording on camcorder models only.



File-based Disc Recording

In addition to its impressive HD picture quality, what makes the XDCAM HD system so distinguished is its file-based disc recording capability. This brings huge benefits such as instant random access and IT connectivity, to name just two.



Professional Disc™

Powerful Non-linear Recording – the Professional Disc Media

The XDCAM HD products use a large-capacity non-linear optical disc for recording, the PFD23 Professional Disc media, which Sony has developed specifically for professional recording applications.

The Professional Disc is a 12-cm, single-layer, reusable optical disc with a capacity of 23 GB. This large capacity makes it possible to record up to two hours* of HD material on a single disc. Professional Disc media is highly reliable and durable because it experiences no mechanical contact during recording or playback, and is packaged into an extremely durable and dust-resistant disc cartridge. The non-contact recording and playback also makes it an ideal media for long-term storage of AV assets. Whereas traditional tape archive systems must be rewound on a periodic basis to remove magnetic powder debris, the Professional Disc media completely eliminates this process.

Its reliability has already been demonstrated by the SD version of the XDCAM products in various areas such as ENG and EFP.

* The figure is approximate. The precise recording duration will depend on the bit rate selected.



PFD23 Professional Disc

IT/Network Friendly

In the Sony XDCAM Series of products, recordings are made as data files in the industry-standard MXF (Material eXchange Format) file format. This allows material to be handled with great flexibility in an IT-based environment – easily available for copying, transferring, sharing, and archiving. All these operations are accomplished without any “digitising” process required. File-based data copying allows for degradation-free dubbing of AV content, which can be performed easily on a PC. The file-based recording system also allows for material to be viewed directly on a PC, simply by linking it to the XDCAM unit via an i.LINK connection. This works in just the same way as a PC reading files on an external drive.

The XDCAM HD camcorders and decks come equipped with IT-friendly, computer-based interfaces.

These include an i.LINK interface supporting DV OUT and File Access Mode as standard, and a Gigabit Ethernet interface available on the PDW-F70 and PDW-F30 decks as an option. Connecting the XDCAM HD system to an Ethernet network offers users a new style of network-based operations that can dramatically improve the efficiency of their workflows.



No Overwriting to Footage – For Immediate Recording Start

By virtue of recording on optical disc media, the XDCAM HD system makes each new recording on an empty area of the disc. This is extremely useful, especially when shooting with camcorders, as it relieves the concerns of camera operators about accidentally recording over good takes, and eliminates the burden of searching for the correct position to start the next recording. In short, it means the camera is always ready for the next shot!

Detailed interoperability between XDCAM and products from other companies can be found in the XDCAM Interoperability Guide.



Instant-Access Thumbnail Search with “Expand” Function

With all XDCAM HD products, video and audio signals are recorded as one clip file each time a recording is started and stopped. During playback, cue-up to the next or previous clips is possible simply by pressing the ‘Next’ or ‘Previous’ button, as you would do on a CD or DVD player. Furthermore, thumbnails are automatically generated for each clip as a visual reference, allowing operators to cue-up to a desired scene simply by guiding the cursor to a thumbnail and pressing the ‘Play’ button. For further convenience, the ‘Expand’ function allows one selected clip in the Thumbnail display to be divided into 12 even-time intervals, each with their own thumbnail identifier. This is useful if you want to quickly search for a particular scene within a lengthy clip.



Expand Function



Scene Selection Function

The Scene Selection function allows simple cuts-only editing* to be performed within the camcorder or deck itself. The results of the edits can be saved as an XDCAM EDL (called “Clip List”), which can be written back to the original disc to stay with the material. The disc can then be played back according to the Clip List so that only selected portions are played out in the desired order. The Scene Selection function presents dramatic improvements to conventional workflows, such as when transferring material to a non-linear editor and/or server, or when searching for material and/or edit points in linear editing systems.

When GUI-based operation is preferred, the Scene Selection operation can also be performed on a PC running the PDZ-1 Proxy Browsing Software supplied with all XDCAM products, providing a visually familiar working environment.

*The video and audio of a clip cannot be edited independently.

Other Features

Power of Proxy Data – Highly Streamlined Workflows

At the same time as recording its high-resolution video and audio data, the XDCAM HD products also record a low-resolution version of this AV data on the same disc. Called "Proxy Data", this is much smaller in size than the high-resolution data (1.5 Mb/s for video and 0.5 Mb/s for audio), and its format is identical to that of the SD version of the XDCAM products.

Because of its lower resolution, Proxy Data can be transferred to a standard PC at an amazingly high speed, and easily browsed and edited using the PDZ-1 Proxy Browsing Software (or other compatible editing software offered by many industry-leading manufacturers). What's more, with the PDZ-1 software, it can be converted to the popular ASF format for playback on Windows® Media Player, providing dramatic improvements in production workflows. Proxy Data can also be viewed directly on a PC without data transfer using an i.LINK (File Access Mode) connection, and can even be sent over a standard Ethernet network.

The overall flexibility of Proxy Data means that it can be used for a variety of applications, such as immediate logging on location, off-line editing, daily rushes of shooting on location, client approvals, and more.

Editing Solutions

The XDCAM HD products are equipped with both conventional AV and IT-based interfaces for flexible integration into a wide array of editing environments. These interfaces* include HD-SDI, HD analogue component video, analogue/digital audio, and RS-422A 9-pin remote control – enabling connection to a wide variety of VTRs, linear and non-linear editors, and audio mixers.

SD interfaces*, including SD-SDI and SD analogue composite, are also provided for down-converted SD outputs, allowing the XDCAM HD system to be integrated into a conventional SD-based editing environment as well.

Another interface that all XDCAM devices provide is an i.LINK interface that supports DV OUT and File Access Mode. Recordings made in both MPEG HD and DVCAM formats can be output as DV files via the i.LINK port, and then be used in many DV-based non-linear editing system. The i.LINK (File Access Mode) allows not only SD (DVCAM) files but also HD (MPEG HD) files to be written (recorded) onto and read from Professional Disc media. This allows you to establish an extremely compact and affordable HD non-linear editing system, for example, using an XDCAM HD camcorder and an i.LINK-compatible laptop PC.

*The supported interfaces vary by product.

Metadata

All XDCAM HD products are capable of recording a variety of metadata, which provides a huge advantage when searching for specific data after the initial recording has been made. Information such as production dates, creator names, and camera setup parameters can be saved together with the AV material on the same disc using the supplied PDZ-1 software. This makes it possible to organise and search through all recordings effectively. One particular metadata, called EssenceMark™ (Shot Mark), is a convenient reference that can be added to desired frames to make them easy to recall in subsequent editing processes.



EssenceMark (Shot Mark 1) Display

Easy Maintenance and High Reliability

The XDCAM HD products use the same platform as the XDCAM SD products that are in wide use around the world. Having the advantage of no mechanical contact between the equipment and recording media, both a high level of durability and long media life have been achieved. XDCAM HD products also offer the same high resistance to shock and vibrations provided by the SD version of the XDCAM products.

PBZD-E1500 software

PBZD-E1500 software allows the PDW-F70 deck to be used for traditional broadcast insert and assemble editing. This can be very useful when integrating XDCAM into a linear editing environment or when selectively archiving tape based material to professional disc.

HDXchange

Collaborative HD media production for workgroups. See www.sonybiz.net/np for more information.

XDCAM HD Camcorders

PDW-F350/PDW-F330 Camcorder



The PDW-F350 and PDW-F330 are highly versatile and cost-effective HD camcorders that are equipped with three 1/2-inch-type HD CCDs, and offer HD recording in 1080/59.94i, 50i, 29.97P, 25P, and 23.98P modes – as well as DVCAM-format recording.

A rich variety of features useful for creative shooting are incorporated into these camcorders such as interval recording, slow-shutter, and selectable gamma curve. Additionally, the PDW-F350 provides a “Slow & Quick Motion” function, which is also commonly known as “over-cranking” and “under-cranking”.

Disc recording provides users with a number of benefits that are specifically useful during shooting. For example, because new footage is always recorded onto an empty area of the disc, there is no need to cue-up to the next recording position before shooting. This means that operators can start shooting without the worry of accidentally recording over existing footage.

In short, the XDCAM HD camcorders are ideally suited to a broad array of shooting opportunities such as event shooting, news gathering, field productions, and indie productions.



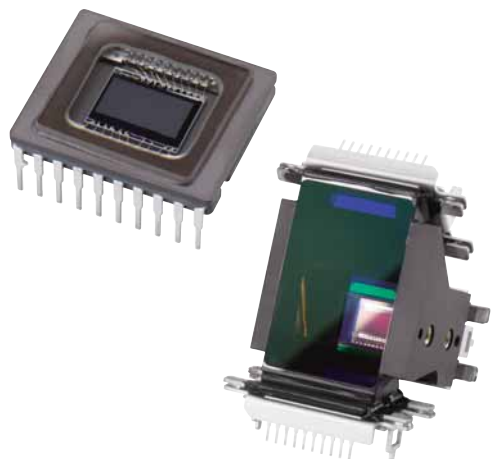
PDW-F350



PDW-F330

1/2-inch type Three HD Power HAD CCD

The XDCAM HD camcorders are equipped with three 1/2-inch-type HD Power HAD™ CCDs, each with a high density of approximately 1.56 megapixels (1440 x 1080). These extremely high-performance CCDs provide an outstanding sensitivity of F9 (at 2000 lx, 3200K), a remarkable signal-to-noise ratio of 54 dB, and a low vertical smear level of -120 dB.



12-bit A/D Conversion

The XDCAM HD camcorders incorporate a high-integrity 12-bit A/D conversion circuit, which allows images captured by the Power HAD CCDs to be processed with great precision. This high-resolution A/D conversion allows the contrast to be reproduced faithfully in both mid-to-dark tone and bright areas of the picture.

Advanced Digital Signal Processing (ADSP)

A key to quality in DSP cameras is how many bits are used in their non-linear processes, such as gamma correction. The ADSP of the XDCAM HD camcorders uses more than 30 bits in non-linear processes, minimising round-off errors to maintain the high quality of the Power HAD CCDs. The ADSP also enables highly sophisticated image controls, such as skin tone detail control and Dynamic Contrast Controls.

Multi-format Recording – HD/SD and Interlace/Progressive

One of the big appeals of the XDCAM HD camcorders is their highly flexible multi-format recording capability. Users can select a recording format from HD (MPEG HD) or SD (DVCAM), 59.94i/50i interlace mode, or 29.97P/25P/23.98P progressive mode.

Operators can use this camcorder for multiple purposes, both today and into the future.

Creative Versatility for Movie Making **CINEALTA**

The XDCAM HD camcorders, part of Sony's proud CineAlta family, provide many creative features for producing a variety of movies. They offer the Slow & Quick Motion Function (PDW-F350 only) for stunningly impressive slow and fast motion images, and Selectable Gamma Curves that are inherited from the top-of-the-line CineAlta camcorder. The Interval Recording function is another tool to create unique ultra-fast moving images.

Slow & Quick Motion Function (PDW-F350)

The PDW-F350 offers a powerful Slow & Quick Motion Function that enables users to create elegant fast- and slow-motion footage – commonly known as over- and under-cranking in film shooting. The PDW-F350 can capture images at frame rates selectable from four fps (frame per second) to 60 fps in increments of 1 fps. For example, when viewed at 23.98P, images captured at four fps will appear six times faster than normal. Conversely, images captured at 60 fps will appear 2.5 times slower than normal. The quality of the slow- and fast-motion images created using the Sony PDW-F350 camcorder is extremely high and incomparable to those created in the editing process.

Another spectacular thing about this feature is that users can see the results right in the camcorder's LCD screen, without using any converters or processing on non-linear editing systems.

This great feature maximises users' shooting creativity while achieving a high level of overall efficiency.

Format	Capturing
23.98P/29.97P	4P-60P in 1P increments
25P	4P-50P in 1P increments

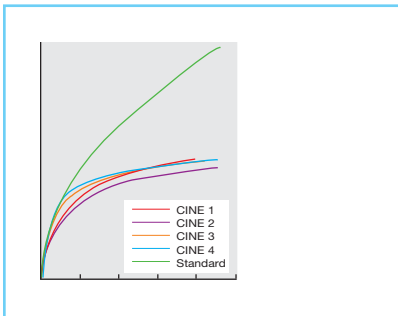
*When capturing at 31-60 fps (in 23.98P/29.97P mode)/26-50 fps (in 25P mode), the camcorders provide lower vertical resolution than in normal capturing mode.

Interval Recording Function For Versatility and Creativity

The XDCAM HD camcorders offer an Interval Recording Function, which intermittently records signals at pre-determined intervals. This is convenient for shooting over long periods of time, and also when creating pictures with special effects of extremely quick motion.

Selectable Gamma Curves

The XDCAM HD camcorders allow operators to choose from five types of gamma curves (Standard, CINE 1, 2, 3 and 4). The CINE 1-4 gamma curves provide natural tonal reproductions for scenes with wide dynamic ranges. The CINE 1 and 2 curves are inherited from HyperGamma, which is available on the top-of-the-line CineAlta camcorder.





LO-32BMT



VCL-719BXS

A Wide Choice of Lenses

The PDW-F330K model comes equipped with the VCL-719BXS servo focus lens. This convenient auto-focus lens helps operators to adjust the focus during manual-focus mode simply by pushing the “PUSH AF” button. It also provides a full-time auto-focus function that automatically tracks the focus in a dynamic manner. This is especially convenient for one-man shooting situations, for example, where the camera operator is also performing other tasks and does not have the capacity to alter the focus manually.

In addition to this auto-focus lens, a variety of 1/2-inch-type HD lenses are separately available from major manufacturers to offer optimum performance of the XDCAM HD camcorder. A 2/3-inch-type lens* can also be used with the XDCAM HD camcorder via its lens connector and the optional LO-32BMT lens adaptor. This allows users to choose from a broad range of lenses, including cinema-style lenses, according to their particular shooting requirements.

* In this configuration, the resulting focal length will be 1.37 times the actual focal length of the lens.

Low-Light Shooting With ‘Slow-Shutter’ and ‘Turbo Gain’ Functions

Sony XDCAM HD camcorders offer two convenient features – Slow Shutter function and Turbo Gain function – for shooting in low-light conditions, which can be used alone or together depending on the situation or the operator’s preferences.

The Slow Shutter function allows operators to use shutter speeds longer than the frame rate, and to intentionally blur images when shooting a moving object, for increased shooting creativity.

The Turbo Gain function allows the camera gain to be boosted up to +48 dB.

Flexible Image Controls

The XDCAM HD camcorders offer highly advanced image control features such as Skin Tone Detail and Dynamic Contrast Control, allowing operators to create stunning images.

High-Quality Audio Recordings

Sony XDCAM HD camcorders record high-quality uncompressed four-channel audio in HD recording-mode. They are also equipped with a range of audio interfaces.

Compact and Lightweight Body

XDCAM HD camcorders are designed to be very compact, lightweight, and ergonomically well balanced, providing a high level of mobility and comfort in various shooting situations. They weigh only 5.4 kg (11 lb 14 oz) including viewfinder, microphone, disc, and BP-GL95 battery pack.

Shock and Dust-resistant Disc Drive

To minimise errors caused by shock or dust entering the disc drive, XDCAM HD camcorders have several unique ways of providing operational resistance to such factors. The disc drive entrance is concealed by two lids, helping to prevent any dust from entering the drive. In addition, four rubber dampers are used to hold the disc drive block in place and to absorb the shocks that would otherwise go into the disc drive.

3.5-inch* Colour LCD Screen

A large, easy-to-view, colour LCD screen on the camcorder’s side panel enables operators to instantly review recorded footage, as well as access the camera’s set-up menus and view status indications such as four-channel audio meters, and the remaining disc and battery time. It also enables advanced operations such as Thumbnail Search and Scene Selection.

* Viewable area measured diagonally.

Wide Variety of Interfaces

The XDCAM HD camcorders come equipped with a wide range of interfaces as standard.

The PDW-F350 and PDW-F330 provide different combinations of interfaces – each optimised for various operational needs.

	PDW-F350	PDW-F330
Input	Front stereo microphone, audio (2-ch), timecode, genlock	Front stereo microphone, audio (2-ch), timecode*, genlock
Output	HD-SDI**, SD analogue composite, digital audio output, timecode, audio (XLR 5-pin), i.LINK	HD analogue component**/SD analogue component (selectable), SD analogue composite, timecode*, audio (Pin jack)
Others		i.LINK

* Timecode input and output of the PDW-F330 share the same connector.
 ** 1080/23.98P recordings are output as 1080/59.94i signals via 2-3 pull-down conversion.

Easy-to-see Viewfinder

The PDW-F350 is equipped with the DXF-20W 2.0-inch monochrome viewfinder as standard. The PDW-F330 is equipped with the DXF-801 1.5-inch monochrome viewfinder as standard, although the DXF-20W is available as an option.

Other Features

- Built-in ND filter wheel: Clear, 1/4ND, 1/16ND, 1/64ND
- IR Remote Commander™ unit: allows remote operations of REC start/stop, zoom, one-push auto-focus, and the addition of Shot Marks
- Down-conversion output: MPEG HD playback can be converted to SD signals and output via the SD composite, component*, or i.LINK (DV OUT) connector
- Freeze Mix function: superimposes a previously recorded image on the viewfinder. This allows the operator to quickly and easily frame or reposition a subject when a shot must be taken from the same position or in the same framework as a previous take.
- Thumbnail Search operation
- Expand function
- Scene Selection function for in-camera cuts-only editing**
- Ability to write EDL (the result of the Scene Selection) back onto disc



- Proxy Data recording
- Four assignable buttons: two on the camera handle and two on the inside panel, enable operators to assign frequently used functions
- Auto Tracing White Balance for automatic adjustments in camera colour temperature according to lighting changes
- Memory Stick™ function for storage of camcorder setup files
- Metadata recording: UMID, Extended UMID, EssenceMark (Shot Mark)
- Sony WRR-855 Series Wireless Microphone Receiver can be easily attached to the camcorder via the optional CA-WRR855 adaptor
- Remote control operation via the Sony RM-B150 and RM-B750 remote control units
- Intelligent light system synchronises strobe on/off to the REC button
- PDZ-1 Proxy Browsing Software and MXF Proxy Viewer supplied as standard

*SD component output is only available on the PDW-F330.

**The video and audio cannot be edited independently.



Top view

Connector Panel (PDW-F350)



Side



Connector Panel (PDW-F330)



Side



Rear

XDCAM HD Decks

PDW-F70 Recording Deck/PDW-F30 Viewing Deck

The XDCAM HD decks are highly versatile, making them useful for many different applications including HD video recording, linear/non-linear editing, and presentations at large exhibition or conference venues.

The PDW-F70 is a powerful recording deck that is equipped with a comprehensive range of interfaces including HD-SDI input and output, HD analogue component, composite outputs, and more. The PDW-F30 is an NLE feeder/viewer type deck, but also offers the capability to record MXF files (in both MPEG HD and DVCAM formats) via its i.LINK (File Access Mode) or Ethernet* interfaces. Both models also offer the capability to input and output 25 Mb/s HDV stream (MPEG-2 TS) for interfacing with HDV products or HDV-based non-linear editors via i.LINK port.**

These decks are equipped with a VTR-like jog dial, providing familiar and fast control of the playback. In addition to the random-access capability, “Thumbnail Search”, “Expand”, and “Scene Selection” functions significantly increase operational efficiency.

* Requires the optional PDBK-101 board ** Requires the optional PDBK-102 board



PDW-F70



PDW-F30



PDJ-A640

PDW-F70 Features

- MPEG HD recording at 35, 25 and 18 Mb/s via HD-SDI, HD analogue component and RGB input (HD analogue component and RGB input requires the optional PDBK-103 board)
- Up-conversion recording (requires the optional PDBK-104 board): Input from SD-SDI or SD composite connectors can be recorded in the MPEG HD format.
- Compatible with the PDJ-A640 Cart

Common Features

- Playback of MPEG HD and DVCAM material
- Down-conversion output: MPEG HD playback can be converted to SD signals and output via the SD-SDI*, SD composite, and i.LINK (DV OUT) connectors.
- Up-conversion output: DVCAM playback can be converted to 1080i HD signals and output via the HD connectors.
- Thumbnail Search operation
- Expand function
- Scene Selection function for in-deck cuts-only editing**
- Equipped with a Jog/Shuttle dial, providing VTR-like operation – Jog/Variable: ± 1 time normal speed, Shuttle: ± 20 times normal speed

- 16:9, 3.5-inch*** colour LCD screen for displaying playback pictures, audio monitors, timecode and setup menus
- Repeat playback function
- A simple Remote Commander unit is supplied.
- Gigabit Ethernet capability for network-based file transfer (requires the optional PDBK-101 board)
- Input and output 25 Mb/s HDV stream (MPEG-2 TS) for interfacing with HDV products or HDV-based non-linear editor via an i.LINK port (requires the optional PDBK-102 board)
- Compact and lightweight design; can be placed either horizontally or vertically
- PDZ-1 Proxy Browsing Software and MXF Proxy Viewer supplied as standard



* SD-SDI interface is available only on the PDW-F70 deck.

** The video and audio cannot be edited independently.

*** Viewable area measured diagonally.

Inputs/Outputs

		PDW-F70	PDW-F30
Input	HD-SDI	●	—
	HD analogue component	● w/PDBK-103	—
	RGB	● w/PDBK-103	—
	SD-SDI	● w/PDBK-104	—
	SD analogue composite	● w/PDBK-104	—
	Digital audio	●	—
	Analogue audio	●	—
	Timecode	●	—
	Reference	●	—
Output	HD-SDI	●	—
	HD analogue component**	●*	●*
	RGB	●*	●*
	SD-SDI	●	—
	SD analogue composite	●	●
	Digital audio	●	—
	Analogue audio	●	●
	Audio monitor	●	●
	Timecode	●	—
Others	i.LINK (DV OUT)	●	●
	i.LINK (File Access Mode)	●	●
	i.LINK (HDV)	● w/PDBK-102	● w/PDBK-102
	Ethernet	● w/PDBK-101	● w/PDBK-101
	Remote	RS-422, RS-232C	RS-422, RS-232C

* HD analogue component and RGB outputs share the same D-Sub 15-pin connector.

** 1080/23.98P recordings are output as 1080/59.94i signals via 2-3 pull-down conversion.

Interface Options

Four types of optional boards are available for the decks:

- PDBK-101: Provides a Gigabit Ethernet interface with the PDW-F70 and PDW-F30
- PDBK-102: Allows 25 Mb/s HDV stream (MPEG-2 TS) to be input and output between the PDW-F70/F30 decks and an HDV device
- PDBK-103: Provides the HD analogue component and RGB inputs with the PDW-F70 (these inputs share the same BNC connectors)
- PDBK-104: Provides the SD-SDI and SD composite input with the PDW-F70

* Only one of the PDBK-102, PDBK-103 or PDBK-104 boards can be installed at any one time.

PDW-F70

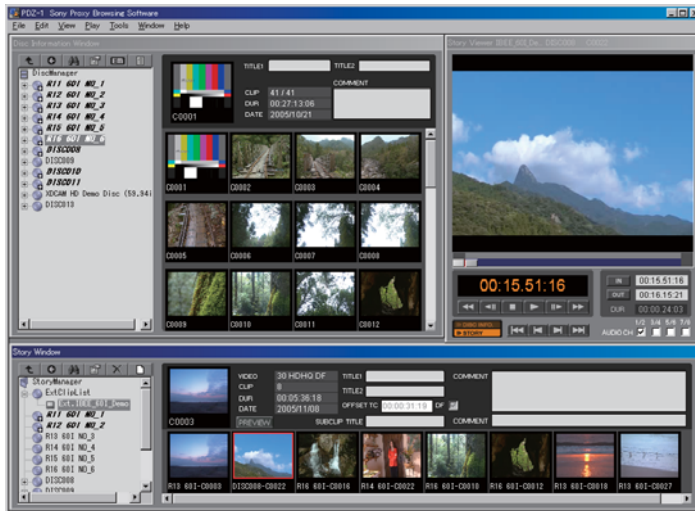


PDW-F30



PDZ-1 Proxy Browsing Software

– An Extremely Powerful Partner with the XDCAM HD System



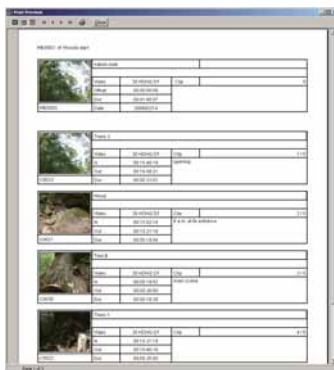
The PDZ-1 Proxy Browsing Software that is supplied with all XDCAM products is a highly convenient tool to easily browse recorded footage and even perform simple cuts-only editing right on your PC. This software also provides a variety of convenient tools for disc operation such as entire or partial disc copy (dubbing) and transfer between two XDCAM devices. It runs on a Windows-based PC, and supports two types of interfaces: i.LINK (File Access Mode) and Ethernet.

The XDCAM HD products can transfer Proxy Data to a PC running the PDZ-1 software at an extremely high speed. The software then enables simple and quick cut editing of this Proxy Data, and once the editing is complete, the edit results can be saved as a "Clip List" (or "XDCAM EDL") and written back to the original disc, allowing the disc to be played back according to the EDL. The Clip List also allows you to instantly generate a popular ASF file, which can be played back according to the EDL on Windows Media Player – a powerful feature that can streamline production workflows.

The PDZ-1 software also includes a variety of convenient functions such as "clip search by metadata", "EDL export in various formats", and "high-resolution file transfer according to a Clip List".

System requirements

Window 2000 (SP4 or later),
Windows XP Professional (SP1 or later), Pentium® III
Processor 1 GHz or higher,
Minimum 512 MB of RAM,
Internet Explorer (SP1 or later),
DirectX 8.1b or higher



Print Function



MXF Proxy Viewer

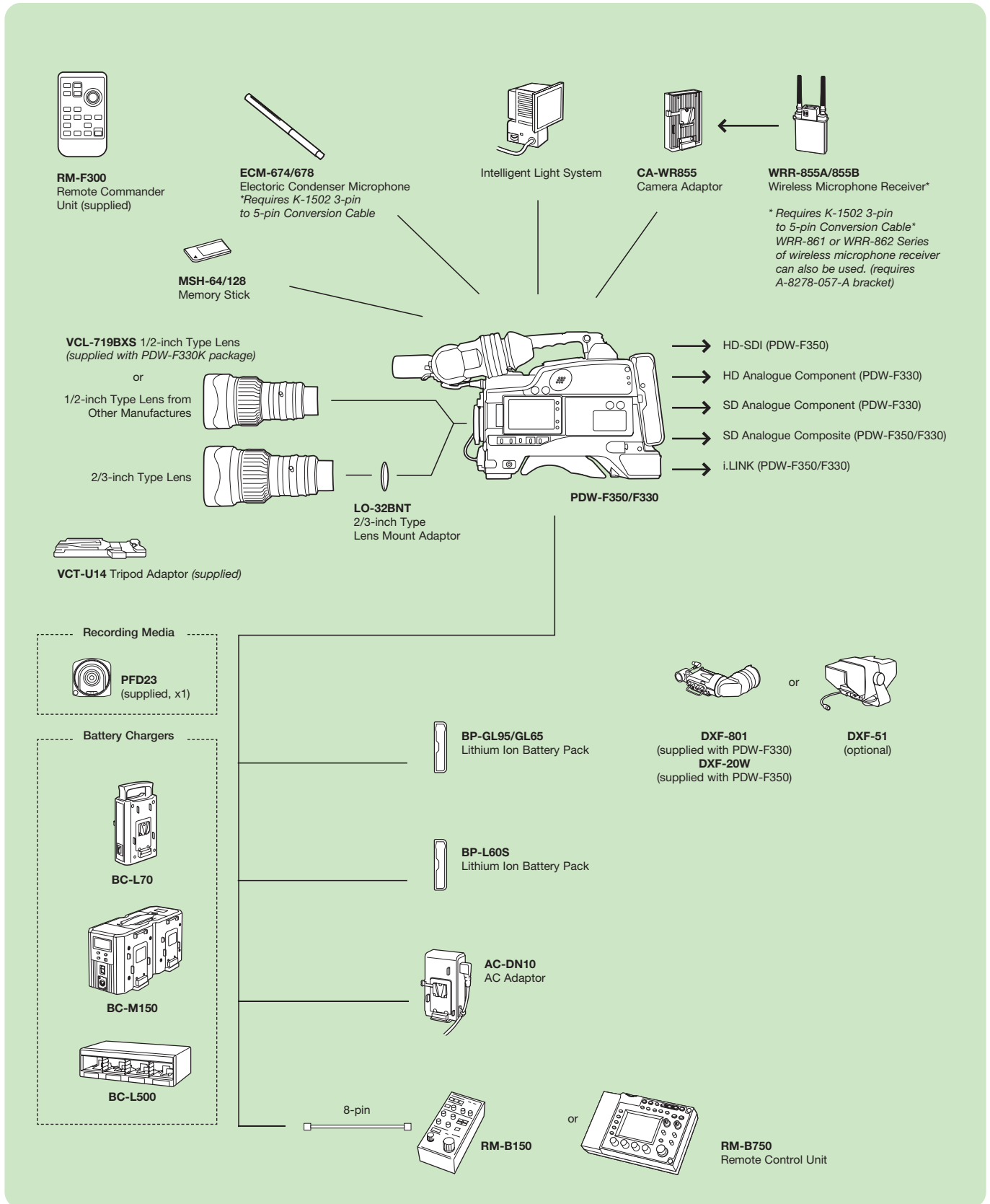
- Supported interfaces: i.LINK (File Access Mode) and Ethernet
- High-speed ingestion of Proxy Data from the XDCAM HD devices
- Browsing of Proxy Data recorded by the XDCAM HD systems (including those recorded by the SD version of the XDCAM system).
- Simple and quick cuts-only editing (storyboard) with the following functions:
 - Preview a result of the storyboard on the PC
 - Save the results as a Clip List (XDCAM EDL)
 - Convert the Proxy Data on the storyboard to an ASF file for replay on Windows Media Player
 - Export the Clip List in BVE-9100, Newsbase™ XML, and ALE (Avid Log Exchange) formats
 - Transfer high-resolution clips according to the Clip List
- Disc copy – entire disc (all clips) or only selected clips
- Registration of metadata such as "title", "creator", or "comments" for a disc or clip
- Setting of "EssenceMark" for instant cue-up to desired scenes. Names for EssenceMark can also be easily assigned.
- Clip search function using the registered metadata as a keyword
- Print function allows metadata such as thumbnails, creation date, and comments to be printed out in an easy-to-see storyboard view

PDZ-VX10 – XDCAM Viewer Software

PDZ-VX10 XDCAM Viewer is a tool that enables you to play back and check the video and audio material in MXF files. In addition to playback of proxy AV data, it supports playback of the material at its original screen quality. So, after a shoot you can upload the MXF files to your server or PC and quickly browse and quality check the material in High Definition on your desktop.

To download software you must be registered with sonybiz.net and logged in.

Camcorder System Diagrams

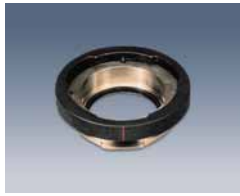


Optional Accessories

For PDW-F350/F330 Camcorders



PFD23
Professional Disc



LO-32BMT
2/3-inch Lens Mount
Adaptor



DXF-20W
2.0-inch B/W Viewfinder
**For PDW-F330 (this is included in
the PDW-F350 as standard.)*



DXF-51
5-inch type B/W Viewfinder
**Requires optional accessory
shoe kit (A-8274-968-B)*



BP-GL95/GL65
Lithium-ion Battery Pack



BP-L60S
Lithium-ion Battery Pack



BC-L70
Battery Charger



BC-M150
Battery Charger



BC-L500
Battery Charger



AC-DN10
AC Adaptor



RM-B150
Remote Control Unit



RM-B750
Remote Control Unit



CA-WR855
Camera Adaptor for
WRR-855A/855B



WRR-855A/855B
Wireless Microphone Receiver



WRR-861A/861B
Wireless Microphone Receiver
**Requires optional mounting
bracket (A-8278-057-A)*



WRR-862A/862B
Wireless Microphone Receiver
**Requires optional mounting
bracket (A-8278-057-A)*



ECM-674/678
Shotgun-type Electret
Condenser Microphone
**Requires K-1502 3-pin to
5-pin Conversion Cable*



LC-300H
Carrying Case (Hard)



LC-DS300SFT
Carrying Case (Soft)



LCR-1
Rain Cover



MSH-64/128
Memory Stick



CCF-3L
i.LINK Cable
(4-pin to 6-pin with lock)



CCFD-3L
i.LINK Cable
(6-pin to 6-pin with lock)



VMC-IL4615B/IL4635B
i.LINK Cable
(4-pin to 6-pin, 1.5 m/3.5 m)



VMC-IL6615B/IL6635B
i.LINK Cable
(6-pin to 6-pin, 1.5 m/3.5 m)

1/2-inch Type HD Lenses From Other Manufacturers



Canon
KH20x6.4 KRS



Canon
KH21x5.7 IRSE



Canon
KH10x3.6 IRSE



Fujinon
XS17x5.5BRM/BRD



Fujinon
XS13x3.3BRM/BRD



Fujinon
HS16x4.6BERM/BERD

* For details, please contact each manufacturer.

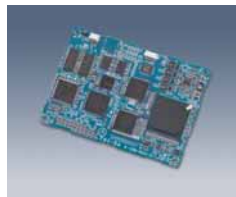
For PDW-F70/F30 Decks



PFD23
Professional Disc



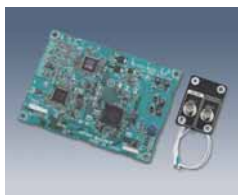
PDBK-101
Network Board



PDBK-102
MPEG-2 TS In/Out Board*



PDBK-103
HD Analogue Input Board*



PDBK-104
SD Input Upconverter
Board*



RM-280
Editing Controller



RCC-5G
Remote Control Cable (5 m)



VMC-IL4615B/IL4635B
i.LINK Cable
(4-pin to 6-pin, 1.5 m/3.5 m)



VMC-IL6615B/IL6635B
i.LINK Cable
(6-pin to 6-pin, 1.5 m/3.5 m)

PBZD-E1500
Software (PDW-F70)

PDZ-VX10
Viewer Software (Available for
download from www.sonybiz.net)

*Only one of the PDBK-102, PDBK-103 or PDBK-104 boards can be installed at any one time.

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XDCAM HD Camcorders Specifications

		PDW-F350L	PDW-F330L, PDW-F330K	
General	Mass	Approx. 3.85 kg (body, 8 lb 7 oz)	Approx. 3.8 kg (body, 8 lb 6 oz) Approx. 6.8kg (with VF, Mic, Disc, BP-GL95 battery, VCL-719BXS AF Lens)	
	Power requirements	DC 12 V +5.0 V/-1.0 V		
	Power consumption	Approx. 32 W (while recording, with viewfinder, colour LCD ON, manual lens)	PDW-F330L (with manual focus lens): Approx. 30 W PDW-F330K (auto focus: ON): Approx. 31 W (while recording, with viewfinder, colour LCD ON)	
	Operating temperature	-5 to 40 °C (+32 to +104 °F)		
	Storage temperature	-20 to +60 °C (-4 to +140 °F)		
	Humidity	10 to 90% (relative humidity)		
	Continuous operating time	Approx. 160 min. w/BP-GL95 battery		
	Recording format	Video	DVCAM (25 Mb/s)* MPEG HD (MPEG-2 MP@HL) HQ mode (VBR, maximum bit rate: 35 Mb/s) SP mode (CBR 25 Mb/s) LP mode (VBR, maximum bit rate: 18 Mb/s)	
		Proxy Video	MPEG-4	
		Audio	MPEG HD: 4ch or 2ch, 16 bits/48 kHz DVCAM: 4ch, 16 bits/48 kHz	
Proxy Audio		A-law (4ch / 2ch, 8 bit, 8 kHz)		
Recording/Playback time		Approx. 85 min. Audio 2ch: approx. 69 min. / Audio 4ch: approx. 66 min. Audio 2ch: approx. 92 min. / Audio 4ch: approx. 87 min. Audio 2ch: approx. 122 min. / Audio 4ch: approx. 113 min.		
Signal inputs	Genlock video	BNC x1, 1.0 Vp-p, 75 Ω		
	Audio input	XLR-3pin (Female) x2, line / mic / mic +48 V selectable		
	Mic input	XLR-5-pin (Female, stereo) x1		
Signal outputs	HD-SDI output	BNC x1, SMPTE 292M (w/embedded audio, MPEG HD mode only)	-	
	Component (HD/SD analogue) video output	-	BNC x3, Y/Pb/Pr, 1.0 Vp-p, 75 Ω	
	Composite video output	BNC x1, 1.0 Vp-p, 75 Ω		
	Earphone	Mini-jack x1 (stereo)		
	Audio output (CH-1/CH-2)	XLR-5-pin (Male, stereo) x1	Pin-jacks x2, -10 dBu, 47 Ω	
Other inputs/outputs	Timecode input	BNC x1, 0.5 to 18 Vp-p, 10 Ω	BNC x1 (input or output, selectable), (input: 0.5 to 18 Vp-p, 10 kΩ, output: 1.0 Vp-p, 75 Ω)	
	Timecode output	BNC x1, 1.0 Vp-p, 75 Ω		
	Lens	12-pin		
	Remote	8-pin		
	Light	2-pin, DC 12 V, max. 50 W		
	DC input	XLR-4-pin (Male) x1		
	DC output	4-pin (for wireless microphone receiver), DC 12 V (MAX 0.2 A)		
	i.LINK	IEEE 1394, 6-pin x1, AV/C (DV stream output) or File Access Mode		
	Frequency response	20 Hz to 20 kHz, +0.5 dB/-1.0 dB		
	Dynamic range	More than 85 dB		
Audio performance	Distortion	Less than 0.08% (at 1 kHz, reference level)		
	Crosstalk	Less than -70 dB (at 1 kHz, reference level)		
	Wow & flutter	Below measurable limit		
	Headroom	20/18/16/12 dB (selectable)		
	Pickup device	3-chip 1/2-inch type HD Power HAD CCD		
Camera section	Effective picture elements	Approx. 1.56 Mega Pixels (1,440 x 1,080)		
	Optical system	F1.4 prism		
	Built-in optical filters	1: Clear, 2: 1/4ND, 3: 1/16ND, 4: 1/64ND		
	Shutter speed	59.94i	1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000, ECS, SLS	
		29.97p	1/40, 1/60, 1/120, 1/125, 1/250, 1/500, 1/1000, 1/2000, ECS, SLS	
		23.98p	1/32, 1/48, 1/96, 1/125, 1/250, 1/500, 1/1000, 1/2000, ECS	
		50i	1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000, ECS, SLS	
		25p	1/33, 1/50, 1/100, 1/125, 1/250, 1/500, 1/1000, 1/2000, ECS, SLS	
	Slow Shutter (frame accumulation)	1 to 8, 16, 32, and 64 frame accumulation		
	Slow & Quick Motion function (*MPEG HD mode only)	23.98p/29.97p	Selectable from 4 to 60 frame/sec as recording frame rate	-
		25p	Selectable from 4 to 50 frame/sec as recording frame rate	
	Interval Recording function (*MPEG HD mode only)	Trigger duration 1.3 or 6 frames for 1 sec to 24 hours		
	Lens mount	Sony 1/2-inch type bayonet mount		
	Sensitivity (2000 lx, 89.9% reflectance)	F9 (typical)		
	Minimum illumination	Approx. 0.004 lx (F1.4 lens, +48 dB turbo gain, with 64 frame accumulation)		
Gain selection	-3, 0, 3, 6, 9, 12, 18, 24, 30, 36, 42, 48 dB			
Smear level	-120 dB (typical)			
S/N ratio	54 dB (typical, HD output)			
Modulation depth at 21 MHz	45% (typical)			
Geometric distortion	Below measurable level (w/o lens)			
Viewfinder	CRT	2.0-inch type monochrome	1.5-inch type monochrome	
	Indicators	REC (x2), TALLY, BATT, SHUTTER, GAIN UP		
Built-in LCD monitor	3.5-inch type colour LCD monitor			
Supplied accessories		-	VCL-719BXS AF Lens (x1, PDW-F330K only)	
		DXF-20W Viewfinder (x1)	DXF-801 Viewfinder (x1)	
		Electret condenser stereo microphone (x1), Wind screen (x1), Lens mount cap (x1), Shoulder belt (x1), VCT-U14 Tripod Adaptor (x1), Frange focal length adjustment test chart (x1), RM-F300 IR remote commander, Operation manual (x1), PDZ-1 Proxy Browsing Software (x1), MXF Proxy Viewer software (x1), Professional Disc (PFD23, x1)		

*We support up-conversion of SD video and support Playback of DVCAM files.

XDCAM HD Decks Specifications

		PDW-F70 Recorder	PDW-F30 Viewer	
General	Power requirements	100 V to 240 V AC, 50/60 Hz		
	Power consumption	70 W		
	Operating temperature	+5 to +40 °C (+41 to +104 °F)		
	Storage temperature	-20 to +60 °C (-4 to +140 °F)		
	Humidity	20 to 90% (relative humidity)		
	Mass	7.2 kg (15 lb 6 oz)		
	Dimensions (W x H x D)	307 x 100 x 411 mm (12 1/8 x 4 x 16 1/2 inches)		
	Recording format	Video	MPEG HD (MPEG-2 MP@HL) HQ mode (VBR, maximum bit rate: 35 Mb/s), SP mode (CBR, 25 Mb/s), LP mode (VBR, maximum bit rate: 18 Mb/s)	-
		Proxy Video	MPEG-4	
		Audio	MPEG HD: 4 ch or 2 ch, 16 bits/48 kHz	
		Proxy Audio	A-law (4 ch / 2 ch, 8 bit, 8 kHz)	
	Playback format	Video	MPEG HD (MPEG-2 MP@HL): HQ mode (VBR, maximum bit rate: 35 Mb/s), SP mode (CBR, 25 Mb/s), LP mode (VBR, maximum bit rate: 18 Mb/s)	
		Proxy Video	MPEG-4	
		Audio	MPEG HD: 4 ch or 2 ch, 16 bits/48 kHz DVCAM: 4 ch, 16 bit/48 kHz	
		Proxy Audio	A-law (4 ch / 2 ch, 8 bit, 8 kHz)	
	Recording/playback time	MPEG HD: HQ mode	Audio 2ch: approx. 69 min., Audio 4ch: approx. 66 min	
		SP mode	Audio 2ch: approx. 92 min., Audio 4ch: approx. 87 min.	
		LP mode	Audio 2ch: approx. 122 min., Audio 4ch: approx. 113 min.	
DVCAM**		Approx. 85 min. (playback only)		
Search speed (in colour)	Jog mode	±1 time normal speed		
	Variable Speed mode	±1 time normal speed		
	Shuttle mode	±20 times normal speed		
Signal inputs	Analogue reference input	BNCx2(including loop through), HD Tri-level sync or SD composite sync (0.3 Vp-p/75 Ω/sync negative)	-	
	Analogue composite input (option: PDBK-104)	BNCx1, RS-170M	-	
	Analogue HD component input (option: PDBK-103)	BNC x4, Y/Pb/Pr/Sync or G/B/R/Sync)	-	
	HD-SDI input	BNCx1, SMPTE 292M	-	
	SD-SDI input (option: PDBK-104)	BNCx1, SMPTE 259M	-	
	Analogue audio input	XLR x2 (channel selectable), +4/0/-3/-6 dBu (selectable), 10 kΩ, balanced	-	
	Digital audio input	AES/EBU, BNCx2, 4 channels	-	
Timecode input	BNCx1, SMPTE Time code	-		
Signal outputs	Analogue composite video output	BNCx1, (1.0 Vp-p/75 Ω/sync negative), RCA-pinx1, (1.0 Vp-p/75 Ω/sync negative)		
	Monitor output	D-sub 15-pin (G/B/R or Y/Pb/Pr)		
	Built-in display	3.5-inch type colour LCD monitor		
	HD-SDI output	BNCx2, SMPTE 292M	-	
	SD-SDI output	BNCx1, SMPTE 259M	-	
	Analogue audio output	XLRx2 (channel selectable), +4/0/-3/-6 dBu (selectable), 600 Ω load, balanced		
	Audio monitor output	RCx2 (L, R, Mix), -6dBu, 47 kΩ, unbalanced		
	Headphone output	Stereo phone jack, -14dBu, 8Ω, unbalanced		
Other inputs/outputs	Digital audio output	AES/EBU, BNCx2, 4 channels	-	
	Timecode output	BNCx1, SMPTE Timecode	-	
	i.LINK	IEEE1394, 6-pin x1, AV/C (DV stream output) or File Access Mode		
	i.LINK(HDV 1080i) (option: PDBK-102)	IEEE1394, 6-pin x1, HDV 1080i IN/OUT		
	Ethernet (option: PDBK-101)	1000Base-T (RJ-45)		
	RS-422A	D-sub 9-pin x 1		
RS-232C	D-sub 9-pin x 1			
CONTROL	Mini-jack 4-pin		-	
Video performance	Sampling frequency	Y: 74.25MHz, R-Y/B-Y: 37.125MHz		
	Quantization	8 bits/sample		
	Analogue composite output(DV)	Frequency response: 0 to 4.2 MHz +1.0/-3.0 dB (525), 0 to 4.8 MHz +1.0/-3.0 dB (625) S/N(Y): 53 dB or more, Y/C delay (K2T): ±25 ns or less, K-factor(K2T): 2% or less		
Processor adjustment range	Video level	±3 dB	±3 dB	
	Chroma level	±3 dB	±3 dB	
	Set up/black level	±30 IRE	±30 IRE	
	Chroma phase	±30 deg	±30 deg	
	System sync phase	±3 µs	-	
	System sync phase (fine)	±200 ns	-	
Audio performance	Sampling frequency	48 kHz		
	Quantization	16 bits/2 channels or 16 bits / 4 channels		
	Frequency response	20 Hz to 20 kHz +0.5/-1.0 dB(0 dB at 1 kHz)		
	Dynamic range	90 dB or more		
	Distortion	0.05% or less (at 1 kHz)		
	Headroom	20/18/16/12 dB (selectable)		
Supplied accessories	Operation manual (x1), Vertical installation stand (x1), Infrared remote commander (x1), PDZ-1 Proxy Browsing Software (x1), MXF Proxy Viewer software (x1)			

*Only one of the PDBK-102, PDBK-103 or PDBK-104 boards can be installed at any one time.

**We support up-conversion of SD video and support Playback of DVCAM files.

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